

IN THE CLAIMS:

Please AMEND claims 1-2, 5, 7-11, 13-15, 19-20, 23-24, and 26, as shown below.

1. (Currently Amended) A data transmission method, comprising:

determining a number of bit rate classes;

setting minimum bit rates for the bit rate classes;

setting a general minimum bit rate;

setting a maximum transmission power target;

arranging resource requests into a queue; and

allocating resources in a telecommunication system according to the requests in the queue by using ~~the minimum bit rates as~~ bit rate allocation portions at least one of: the minimum bit rates for the bit classes and the general bit rate until the maximum transmission power target is achieved.

2. (Currently Amended) A data transmission method, comprising:

determining a number of bit rate classes;

setting minimum bit rates for the bit rate classes;

setting a general minimum bit rate;

setting a maximum transmission power target;

arranging resource requests into a queue;

allocating resources in a telecommunication system according to the requests in the queue by using ~~the minimum bit rates as~~ bit rate allocation portions at least one of: the minimum bit rates for the bit classes and the general bit rate;

if the maximum transmission power target is not achieved when resources have been allocated to all users in the queue,

increasing bit rates based on the queue until the maximum transmission power target is achieved; and

if the resource requests cause too much load in relation to the maximum transmission power target,

decreasing ~~the~~ a required number of bit rates in a predetermined way.

3. (Previously Presented) The method of claim 1, further comprising:
determining the bit rate classes based on a required quality of service.

4. (Previously Presented) The method of claim 1, further comprising setting the bit rate classes based on a quality of service parameter, wherein the quality of service parameter comprises allocation retention priority.

5. (Currently Amended) The method of claim 2, further comprising:
when a maximum transmission power threshold is exceeded, decreasing the bit rate by allocating to a user ~~a~~ the general minimum bit rate.

6. (Previously Presented) The method of claim 2, further comprising:
when a maximum transmission power threshold is exceeded, decreasing the bit rate by allocating to a user a class-specific minimum bit rate.

7. (Currently Amended) A data transmission method, comprising:
determining a number of bit rate classes;
setting minimum bit rates for the bit rate classes;
setting a general minimum bit rate;
setting a maximum transmission power target;
arranging resource requests into a queue;
allocating resources in a telecommunication system according to the requests in
the queue by using as bit rate allocation portions at least one of: the minimum bit rates for
the bit classes and the general bit rate;
if the maximum transmission power target is not achieved when resources have
been allocated to all users in the queue,
increasing bit rates based on the queue until the maximum transmission power
target is achieved; and
if the resource requests cause too much load in relation to the maximum
transmission power target,

decreasing a required number of bit rates in a predetermined wayThe method of claim 2,

wherein the decreasing of the bit rates starts from a first user who has a bit rate higher than a the general minimum bit rate and a lowest priority, followed by a second user who has a bit rate higher than a class specific minimum bit rate and the lowest priority.

8. (Currently Amended) The method of claim 2, further comprising:

if a the general minimum bit rate or a class specific minimum bit rate is allocated to the users and the load remains too high, transferring a required number of users to a control channel.

9. (Currently Amended) A radio network controller, comprising:

a bit rate class determination unit configured to determine a number of bit rate classes;

a bit rate setter unit configured to set minimum bit rates for the bit rate classes;

a general bit rate setter unit configured to set a general minimum bit rate;

a maximum transmission power target setter unit configured to set a maximum transmission power target;

a queue unit configured to arrange resource requests into a queue; and

a resource allocation unit configured to allocate resources according to the requests in the queue by using ~~the minimum bit rates as~~ bit rate allocation portions at least one of: the minimum bit rates for the bit classes and the general bit rate until the maximum transmission power target is achieved.

10. (Currently Amended) A radio network controller, comprising:

a bit rate class determination unit configured to determine a number of bit rate classes;

a bit rate setter unit configured to set minimum bit rates for the bit rate classes;

a general bit rate setter unit configured to set a general minimum bit rate;

a maximum transmission power target setter unit configured to set a maximum transmission power target;

a queue unit configured to arrange resource requests into a queue;

a resource allocation unit configured to allocate resources according to the requests in the queue by using ~~the minimum bit rates as~~ bit rate allocation portions at least one of: the minimum bit rates for the bit classes and the general bit rate;

a bit rate increaser unit configured to increase bit rates based on the queue until the maximum transmission power target is achieved; and

a bit rate decreaser unit configured to decrease the required number of bit rates in a predetermined way.

11. (Currently Amended) The radio network controller of claim 10, ~~further comprising: a~~ wherein the bit rate class determination unit is configured to determine the bit rate classes based on a required quality of service.

12. (Previously Presented) The radio network controller of claim 10, further comprising:

a bit rate class setter configured to set the bit rate classes based on a quality of service parameter, wherein the quality of service parameter comprises allocation retention priority.

13. (Currently Amended) The radio network controller of claim 10, wherein the bit rate decreaser unit is configured to decrease the bit rate by allocating ~~a~~ the general minimum bit rate to a user.

14. (Currently Amended) The radio network controller of claim 10, wherein the bit rate decreaser unit is configured to decrease the bit rate by allocating ~~the~~ a class specific minimum bit rate to a user.

15. (Currently Amended) A radio network controller, comprising:
a bit rate class determination unit configured to determine a number of bit rate
classes;

a bit rate setter unit configured to set minimum bit rates for the bit rate classes;
a general bit rate setter unit configured to set a general minimum bit rate;
a maximum transmission power target setter unit configured to set a maximum
transmission power target;
a queue unit configured to arrange resource requests into a queue;
a resource allocation unit configured to allocate resources according to the
requests in the queue by using as bit rate allocation portions at least one of: the minimum
bit rates for the bit classes and the general bit rate;
a bit rate increaser unit configured to increase bit rates based on the queue until the
maximum transmission power target is achieved;
a bit rate decreaser unit configured to decrease the required number of bit rates in
a predetermined way~~The radio network controller of claim 10, further comprising: ; and~~
 a bit rate decrease initiation unit configured to start the decreasing of the bit rates
 from a first user who has a bit rate higher than ~~a~~the general minimum bit rate and a
 lowest priority, followed by a second user who has a bit rate higher than a class specific
 minimum bit rate and the lowest priority.

16. (Previously Presented) The radio network controller of claim 10, further comprising:

a transference unit configured to transfer a needed number of users onto a control
 channel.

17. (Previously Presented) A base station, comprising:
a resource arrangement unit configured to arrange resource requests into a queue;
and
a resource allocation unit configured to allocate resources according to the requests in the queue by using minimum bit rates as bit rate allocation portions.

18. (Previously Presented) A base station, comprising:
a resource arrangement unit configured to arrange resource requests into a queue;
a resource allocation unit configured to allocate resources according to the requests in the queue by using minimum bit rates as bit rate allocation portions;
a bit rate increaser unit configured to increase bit rates based on the queue until a maximum target set for a transmission power is achieved; and
a bit rate decreaser unit configured to decrease a required number of bit rates in a predetermined way.

19. (Currently Amended) A radio network controller, configured to:
determine a number of bit rate classes;
set minimum bit rates for the bit rate classes;
set a general minimum bit rate;
set a maximum transmission power target;

arrange resource requests into a queue; and

allocate resources according to the requests in the queue by using ~~the minimum bit rates as~~ bit rate allocation portions at least one of: the minimum bit rates for the bit classes and the general bit rate until the maximum transmission power target is achieved.

20. (Currently Amended) A radio network controller, configured to:

determine a number of bit rate classes;

set minimum bit rates for the bit rate classes;

set a general minimum bit rate;

set a maximum transmission power target;

arrange resource requests into a queue;

allocate resources according to the requests in the queue by using ~~the minimum bit rates as~~ bit rate allocation portions at least one of: the minimum bit rates for the bit classes and the general bit rate;

increase bit rates based on the queue until the maximum transmission power target is achieved; and

decrease the required number of bit rates in a predetermined way.

21. (Previously Presented) A base station, configured to:

arrange resource requests into a queue; and

allocate resources according to the requests in the queue by using minimum bit rates as bit rate allocation portions.

22. (Previously Presented) A base station, configured to:

arrange resource requests into a queue;

allocate resources according to the requests in the queue by using minimum bit rates as bit rate allocation portions;

increase bit rates based on the queue until a maximum target set for a transmission power is achieved; and

decrease a required number of bit rates in a predetermined way.

23. (Currently Amended) A radio network controller, comprising:

means for determining a number of bit rate classes;

means for setting minimum bit rates for the bit rate classes;

means for setting a general minimum bit rate;

means for setting a maximum transmission power target;

means for arranging resource requests into a queue; and

means for allocating resources according to the requests in the queue by using the ~~minimum bit rates as bit rate allocation portions~~ at least one of: the minimum bit rates for the bit classes and the general bit rate until the maximum transmission power target is achieved.

24. (Currently Amended) A radio network controller, comprising:

- means for determining a number of bit rate classes;
- means for setting minimum bit rates for the bit rate classes;
- means for setting a general minimum bit rate;
- means for setting a maximum transmission power target;
- means for arranging resource requests into a queue;
- means for allocating resources according to the requests in the queue by using the minimum bit rates as bit rate allocation portions at least one of: the minimum bit rates for the bit classes and the general bit rate;
- means for increasing bit rates based on the queue until the maximum transmission power target is achieved; and
- means for decreasing ~~the~~ a required number of bit rates in a predetermined way.

25. (Previously Presented) A base station comprising:

- means for arranging resource requests into a queue; and
- means for allocating resources according to the requests in the queue by using minimum bit rates as bit rate allocation portions.

26. (Currently Amended) A base station, comprising:

- means for arranging resource requests into a queue;

means for allocating resources according to the requests in the queue by using minimum bit rates as bit rate allocation portions;

means for increasing bit rates based on the queue until a maximum target set for a transmission power is achieved; and

means for decreasing ~~the~~a required number of bit rates in a predetermined way.